# N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP) Recombinant Protein | NT-ProBNP recombinant protein

Recombinant N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA149274** | **E.coli** | **Mus musculus (Mouse)** | **Western Blot, SDS-Page** |

## PRODUCT SYNONYMS

N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP); Recombinant N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP); NT-Pro-BNP; ; N-BNP; NT-ProBNP recombinant protein

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Host** | E.coli |
| **Reactivity** | Mus musculus (Mouse) |
| **Purity/Purification** | > 80% |
| **Form/Format** | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose |
| **Concentration** | Original Concentration: 700ug/mL (varies by lot) |
| **Applicable Applications for NT-ProBNP recombinant protein** | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control |
| **Source** | Prokaryotic expression |
| **Residues** | Tyr27~Arg76 |
| **Tags** | N-terminal His and GST Tag |
| **Subcellular Location** | Secreted |
| **Traits** | Freeze-dried powder |
| **Predicted isoelectric point** | 9.6 |
| **Phenomenon explanation** | The possible reasons that the actual band size differs from the predicted are as follows:<br>1. Splice variants: Alternative splicing may create different sized proteins from the same gene.<br>2. Relative charge: The composition of amino acids may affects the charge of the protein.<br>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.<br>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.<br>5. Polymerization of the target protein: Dimerization, multimerization etc. |
| **Usage** | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |
| **Preparation and Storage** | **Storage:**<br>Avoid repeated freeze/thaw cycles.<br>Store at 2-8 degree C for one month.<br>Aliquot and store at -80 degree C for 12 months.<br><br>**Stability Test:**<br>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

## IMAGES



SDS-PAGE



**Identification**
Gene Sequencing (extract



Sequence

## ADDITIONAL INFORMATION

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|---|---|
| **Product Categories/Family for NT-ProBNP recombinant protein** | Endocrinology; Cardiovascular biology |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 565671787 |
| **NCBI GeneID** | 18158 |
| **NCBI Accession #** | NP_001274277.1 |
| **NCBI GenBank Nucleotide #** | NM_001287348.1 |
| **UniProt Accession #** | P40753 |
| **Molecular Weight** | Predicted Molecular Mass: 35.9kDa<br>Accurate Molecular Mass: 40kDa as determined by SDS-PAGE reducing conditions. |
| **NCBI Official Full Name** | natriuretic peptides B isoform 2 preproprotein |
| **NCBI Official Synonym Full Names** | natriuretic peptide type B |
| **NCBI Official Symbol** | Nppb |
| **NCBI Official Synonym Symbols** | BNF; BNP; AA408272 |
| **NCBI Protein Information** | natriuretic peptides B |
| **UniProt Protein Name** | Natriuretic peptides B |
| **UniProt Gene Name** | **Nppb** |
| **UniProt Synonym Gene Names** | BNP |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/nppb-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/149274